

ABSTRACT OF THE DISCLOSURE

A lining system for a fluid containment vessel having an outer section with a floor surface and a vertical surface. The inner section is attached to the outer section so that interstitial space exists between the outer section and the inner section and a continuous negative pressure exists in the interstitial space. The floor surface is formed from a cost saving template. The vessel is divided into at least two independently sealed portions. The inner section includes a shell skirt that reaches a critical height within the vessel to reduce the effects of corrosion and to avoid stresses on the vertical surface. A flushing mechanism allows the area to be purged of any leaked material.

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